Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference										
048PCT 0138	FOR FURTHER ACTION	See Form PCT/IPEA/416								
International application No.	International filing date (day/month/year)	Priority date (day/month/year)								
PCT/DE2004/000745	02.04.2004	07.04.2003								
International Patent Classification (IPC) or national classification and IPC										
Applicant										
FRAUNHOFER-GESELLSCH	AFT ZUR FÖRDERUNG DER	ANGEWANDTEN FORSCHUNG								
E.V.										
This report is the international prelin under Article 35 and transmitted to th		International Preliminary Examining Authority								
2. This REPORT consists of a total of	4 sheets, including	g this cover sheet.								
3. This report is also accompanied by A										
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:								
sheets of the descrip	tion, claims and/or drawings which have been a	mended and are the basis for this report and/or								
sheets containing red Instructions).	ctifications authorized by this Authority (see Ru	le 70.16 and Section 607 of the Administrative								
1 1 1		siders contain an amendment that goes beyond								
the disclosure in the Box.	international application as filed, as indicated	in item 4 of Box No. I and the Supplemental								
b. (sent to the International)	Bureau only) a total of (indicate type and number	er of electronic carrier(s))								
	31									
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see										
Section 802 of the Administ										
4. This report contains indications relati	ng to the following items:									
Box No. I Basis of the	report									
Box No. II Priority										
Box No. III Non-establi	shment of opinion with regard to novelty, inven	tive step and industrial applicability								
	ty of invention									
	atement under Article 35(2) with regard to nove	elty, inventive step or industrial applicability;								
	d explanations supporting such statement									
Box No. VI Certain doc	Box No. VI Certain documents cited									
Box No. VII Certain defects in the international application										
Box No. VIII Certain observations on the international application										
Date of submission of the demand	Date of submission of the demand Date of completion of this report									
Name and mailing address of the IPEA/EP	Authorized officer									
Facsimile No.	Telephone No.	Telephone No.								

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/DE2004/000745

Box	No. I	Basis of the report					
1.		regard to the language, this report is based on the internationated under this item.	onal application in the language in which it was filed, unless otherwise				
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4	•				
	137'41	international preliminary examination (Rule 55.2 and	·				
2.	recei	ith regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to is report):					
		the international application as originally filed/furnished					
	\boxtimes	the description:					
		pages 1-17	as originally filed/furnished				
		pages*	received by this Authority on				
		pages*	received by this Authority on				
	\boxtimes	the claims:					
		nos. 1-21	as originally filed/furnished				
		nos.*	as amended (together with any statement) under Article 19				
		nos.*	received by this Authority on				
		nos.*	received by this Authority on				
	\boxtimes	the drawings:					
		sheets1/6-6/6	as originally filed/furnished				
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) - see Supplement	nental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
	any table(s) related to sequence listing (specify):						
*	* If item 4 applies, some or all of those sheets may be marked "superseded."						

International application No.
PCT/DE2004/000745

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				bility;
1.	Statement			
	Novelty (N)	Claims	5-8, 10, 14, 18-21	YES
		Claims	1-4, 7, 9, 11-13, 15-17	NO
	Inventive step (IS)	Claims		YES
		Claims	1-21	NO
	Industrial applicability (IA) Claims	1-21	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following documents:

D1: US-A-5 146 515 (CHAO ZU-WEN ET AL) 8 September 1992 (1992-09-08).

2. The present application fails to satisfy the requirements of PCT Article 33(1) because the subject matter of claim 1 lacks novelty (PCT Article 33(2)).

Document D1 discloses (the references in parentheses are to said document) an arrangement for the optical determination of a distance from a reflective surface, light from a light source being directed onto said reflective surface via a first optical fibre and reflected light being directed away therefrom via the first optical fibre or at least one further optical fibre to at least one static optical detector (column 1, lines 7-28), the light directed onto the reflective surface (figure 1, [P1, P2]) and away from the reflective surface travelling via at least one collimating optical element directed

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towards the reflective surface (column 2, lines 25-28 and lines 54-59) and at least two optical elements that focus in the direction of the reflective surface (column 2, lines 60-68), the optical axes of said optical elements being aligned in a direction that is parallel to the optical axis of the collimating optical element and being mutually spaced at a predetermined distance (figure 2).

3. Dependent claims 2-21 contain no features which, combined with the features of any claim to which they refer, meet the PCT requirements for novelty and/or inventive step. The features in question concern structural modifications of the kind that a person skilled in the art routinely makes on the basis of familiar considerations.